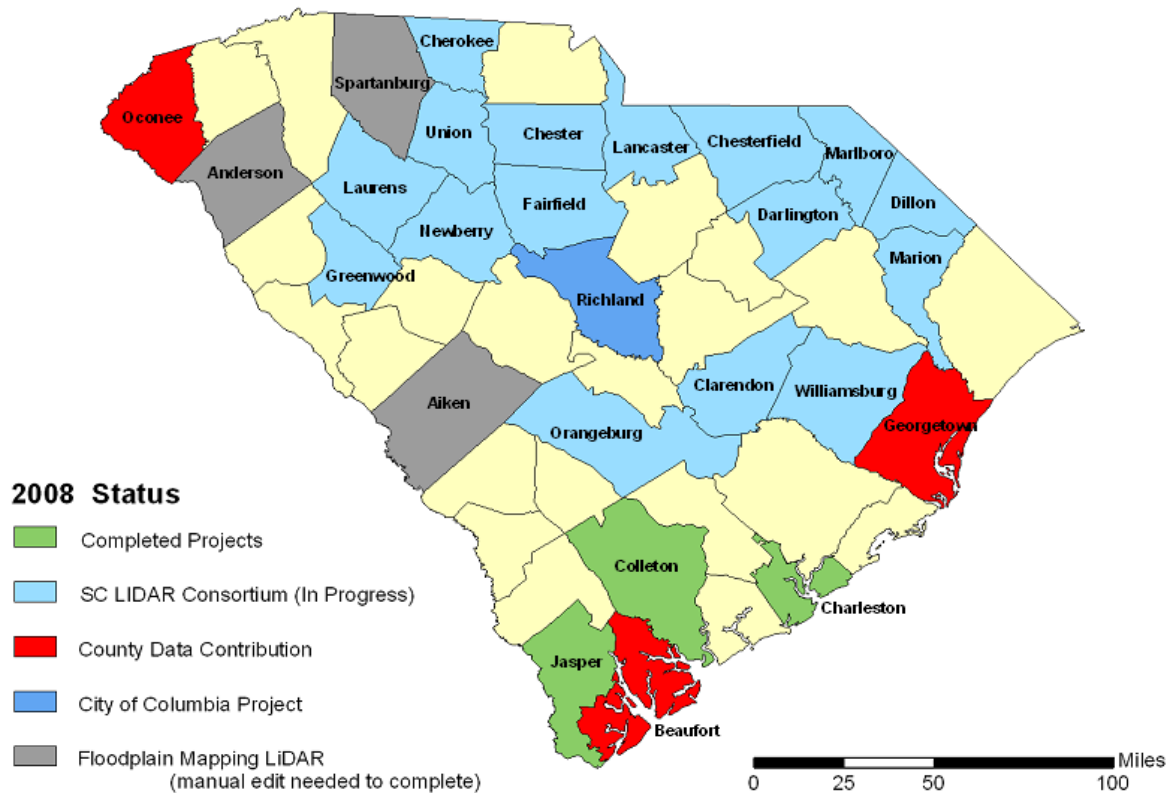


South Carolina Statewide LiDAR



Technical Specifications

Vertical / Horizontal Accuracy

- 1.4-meters nominal point spacing (LAS and Bare-earth)
- Bare-earth 18.5 cm Vertical RMSE to support 2-foot contours
- 1.0-meter Horizontal RMSE
- Accuracy Tested at 95 percent confidence level

Deliverable Products

- LAS Point Cloud data
- Geodatabase Terrain Surface (Bare-earth, TIN, 3D features)
- Intensity Images
- 3-D Hydro breaklines
- Quality Assurance Report

In-kind Services

South Carolina Geodetic Survey

- Checkpoint Surveys for Accuracy_z Testing
- Testing is inclusive of 3 land cover categories
- 20 checkpoints minimum per category (60 per county)

Consortium of State Universities and Colleges

- 10.0-foot DEMs (~ 3-meters)
- 2-foot Topographic Contours

File Sizes

South Carolina (26,726 sq m - 42 counties)

LAS Point Cloud	~ 5,837 GB	
1.4-meter bare-earth	~ 4,801 GB	
2-foot contours	~ 2,784 GB	
10-foot DEMs	<u>~ 2,784 GB</u>	
	~ 16,206 GB	16.2 Terra Bytes

On-line Storage Options

LAS Point Cloud – Center for LiDAR Information Coordination and Knowledge (CLICK)

<http://lidar.cr.usgs.gov/>

<http://gisdata.usgs.net/website/lidar/viewer.php>

Bare-earth DEMs – *The National Map Seamless Server*

<http://seamless.usgs.gov/>

South Carolina Department of Natural Resources

<http://www.dnr.sc.gov/GIS/download.html>

SC LiDAR Partnership Workshop – April 8, 2008

- Goal is to provide more insight on how to use LiDAR data
- Several Vendors will demonstrate there software applications
 - Fugro EarthData
 - ESRI, ArcGIS Spatial Analysis
 - Merrick, MARS
 - GeoCue Corporation
- Contact Gary L Merrill to register, glmerrill@usgs.gov

Consortium Members

2008 in Progress (16 Counties)

Beaufort County
Clemson (In-Kind)
DHEC
DNR
DOE-SR
DOT
FEMA
Georgetown County
Oconee County
PRT
SCGS (In-kind)
USC (In-kind)
USACE
USDA-FS
USDA-NRCS
USFWS
USGS

Planning for 2009 / 2010

City of Florence
City of Greenville
Clemson (In-Kind)
Darlington County
Dept. of Insurance
DNR
DOT
EMD
Greenville County
Greenwood County
NPS
USDA-NRCS
Lexington County
Orangeburg County
PRT
SCGS (In-kind)
York County
USC (In-kind)
USGS